

## SEQUENCE LISTING

<110> National Research Council of Canada

<120> Transgenic manipulation of sn-glycerol-3-phosphate and  
glycerol production with a feedback defective  
glycerol-3-phosphate dehydrogenase gene

<130> 45419

<140>

<141>

<150> US60/155133

<151> 1999-09-22

<160> 6

<170> PatentIn Ver. 2.1

<210> 1

<211> 1020

<212> DNA

<213> Escherichia coli

<400> 1

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gatacgctcc atcttgaag cgatctcgcc actgcgtgg cagccagccg taatattctc 240  
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ggtgccggga tgtccgacgg tatcggtttt ggtgcgaatg cgcgtacggc gctgatcacc 660  
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<212> PRT

<213> Escherichia coli

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Leu Trp Gly His Asp Pro Glu His Ile Ala Thr Leu Glu Arg Asp Arg  
35 40 45

Cys Asn Ala Ala Phe Leu Pro Asp Val Pro Phe Pro Asp Thr Leu His  
50 55 60

Leu Glu Ser Asp Leu Ala Thr Ala Leu Ala Ala Ser Arg Asn Ile Leu  
65 70 75 80

Val Val Val Pro Ser His Val Phe Gly Glu Val Leu Arg Gln Ile Lys  
85 90 95

Pro Leu Met Arg Pro Asp Ala Arg Leu Val Trp Ala Thr Lys Gly Leu  
100 105 110

Glu Ala Glu Thr Gly Arg Leu Leu Gln Asp Val Ala Arg Glu Ala Leu  
115 120 125

Gly Asp Gln Ile Pro Leu Ala Val Ile Ser Gly Pro Thr Phe Ala Lys  
130 135 140

Glu Leu Ala Ala Gly Leu Pro Thr Ala Ile Ser Leu Ala Ser Thr Asp  
145 150 155 160

Gln Thr Phe Ala Asp Asp Leu Gln Gln Leu Leu His Cys Gly Lys Ser  
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Phe Arg Val Tyr Ser Asn Pro Asp Phe Ile Gly Val Gln Leu Gly Gly  
180 185 190

Ala Val Lys Asn Val Ile Ala Ile Gly Ala Gly Met Ser Asp Gly Ile  
195 200 205

Gly Phe Gly Ala Asn Ala Arg Thr Ala Leu Ile Thr Arg Gly Leu Ala  
210 215 220

Glu Met Ser Arg Leu Gly Ala Ala Leu Gly Ala Asp Pro Ala Thr Phe  
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Met Gly Met Ala Gly Leu Gly Asp Leu Val Leu Thr Cys Thr Glu Asn  
245 250 255

Gln Ser Arg Asn Arg Arg Phe Gly Met Met Leu Gly Gln Gly Met Asp  
260 265 270

Val Gln Ser Ala Gln Glu Lys Ile Gly Gln Val Val Glu Gly Tyr Arg  
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Asn Thr Lys Glu Val Arg Glu Leu Ala His Arg Phe Gly Val Glu Met  
290 295 300

Pro Ile Thr Glu Glu Ile Tyr Gln Val Leu Tyr Cys Gly Lys Asn Ala  
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Ser Ser His

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